10/643,339

(FILE 'HOME' ENTERED AT 15:33:17 ON 11 OCT 2004)

FILE 'REGISTRY' ENTERED AT 15:33:30 ON 11 OCT 2004 STRUCTURE UPLOADED

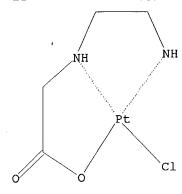
=> d 11

L1 HAS NO ANSWERS

L1

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:34:08 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

COMPLETE BATCH

PROJECTED ITERATIONS: 4 TO 200 80

1 TO PROJECTED ANSWERS:

1 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 15:34:14 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 123 TO ITERATE

100.0% PROCESSED 123 ITERATIONS 15 ANSWERS

SEARCH TIME: 00.00.01

15 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY

155.42 155.63 FULL ESTIMATED COST

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FILE COVERS 1907 - 11 Oct 2004 VOL 141 ISS 16 FILE LAST UPDATED: 10 Oct 2004 (20041010/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 13
L4 8 L3
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=> d 1-8 bib abs

- L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2002:29664 CAPLUS
- DN 136:256268
- TI Oxidation of [PtIICl2(ethane-1,2-diamine-N,N'-dicarboxylic acid)] and ligand ring closure in the platinum(IV) oxidation state
- AU Wong, Pong Nai; Davies, Murray S.; Hambley, Trevor W.
- CS Centre for Heavy Metals Research, School of Chemistry, University of Sydney, Sydney, 2006, Australia
- SO Australian Journal of Chemistry (2001), 54(5), 303-306 CODEN: AJCHAS; ISSN: 0004-9425
- PB CSIRO Publishing
- DT Journal
- LA English
- OS CASREACT 136:256268
- AB Oxidation of the dichloroplatinum(II) complex of the potentially tetradentate ligand ethane-1,2-diamine-N,N'-diacetic acid (H2enda) gives rise to a variety of products. A number of these species were crystallog. characterized. [PtIVCl2(enda)] as the hemihydrate crystallizes in the monoclinic space group P21/a, with a 11.238(1), b 15.665(2), c 13.737(2), β 109.44(1)°, and was refined to an R value of 0.030 on 3015F. [PtIVCl2(enda)] as the monohydrate crystallizes in the orthorhombic space group Pna21, with a 6.984(2), b 9.000(3), c 18.431(3), and was refined to an R value of 0.025 on 992F. [PtIVCl3(Henda)]H2O crystallizes in the orthorhombic space group Pbca, with a 11.741(1), b 12.851(2), c 17.133(2) Å, and was refined to an R value of 0.029 on 2015F. The major product is the ring-closed complex [PtIVCl2(enda)] and if the solution is heated under reflux for 24 h, this is the only product. In contrast, reaction of cis,trans-[PtIVCl2(OH)2(ethane-1,2-diamine)] with excess HOAc was shown not to lead to displacement of the hydroxo ligands.
- RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2001:94956 CAPLUS
- DN 134:347561
- TI Synthesis and antitumour activity of platinum(II) and platinum(IV) complexes containing ethylenediamine-derived ligands having alcohol, carboxylic acid and acetate substituents. Crystal and molecular structure of [PtL4Cl2]·H2O where L4 is ethylenediamine-N,N'-diacetate
- AU Jolley, J. N.; Yanovsky, A. I.; Kelland, L. R.; Nolan, K. B.
- CS Department of Chemistry, Royal College of Surgeons in Ireland, Dublin,

Tre.

- SO Journal of Inorganic Biochemistry (2001), 83(2-3), 91-100 CODEN: JIBIDJ; ISSN: 0162-0134
- PB Elsevier Science Inc.
- DT Journal
- LA English
- Several cisplatin analogs of ethylenediamine-derived ligands containing alc., AB carboxylic acid and acetate substituents were prepared and characterized. Oxidation of some of these square planar platinum(II) complexes using aqueous hydrogen peroxide gave octahedral platinum(IV) complexes, containing trans hydroxo ligands. Acetylation of the hydroxo ligands was achieved by reaction with acetic anhydride, giving complexes which are analogs of the antitumor drug, JM-216. Oxidation of [Pt(H2L4)Cl2], where H2L4 is ethylenediamine-N,N'-diacetic acid, with H2O2 gave the platinum(IV) complex [PtL4Cl2] H2O in which L4 is tetradentate as shown by a crystal and mol. structure. This complex was previously reported to be [Pt(HL4)(OH)Cl2] in which HL4 is tridentate. Several of the complexes were tested for antitumor activity against five human ovarian carcinoma cell lines. IC50 values range from 4.0 µM for cis, trans-PtCl2(OH)2(NH2CH2CH2NHCH2CH2OH) against the CH1 cell line to >25 μM indicating moderate to low activity relative to other platinum complexes.
- RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1996:186675 CAPLUS
- DN 124:330624
- TI A comparison of the solution behavior of Pt(II) complexes of N,N'- and N,N-ethylenediaminediacetate (edda and uedda)
- AU Shepherd, Rex E.; Zhang, Songsheng; Kortes, Richard; Lin, Fu-Tyan; Maricondi, Chris
- CS Department of Chemistry, University of Pittsburgh, Pittsburgh, PA, 15260,
- SO Inorganica Chimica Acta (1996), 244(1), 15-23 CODEN: ICHAA3; ISSN: 0020-1693
- PB Elsevier
- DT Journal
- LA English
- Pt(II) complexes of N, N'-ethylenediaminediacetate (edda) and AΒ N,N-ethylenediaminediacetate (uedda) were prepared from K2PtCl4 by stepwise addition of the N backbone donors at pH .apprx.2.9 (50-60°, 60 h) and further coordination of the deprotonated carboxylate donors at pH \geq 4 (65-75°, 24 h). Coordination of the glycinato donors was shown by 1H and 13C NMR and IR methods. The sym. edda ligands form 38.3%(R,R)/(S,S)-[Pt(edda)] isomers and 61.7% meso (R,S)/(S,R)-[Pt(edda)]isomers. All four forms of [Pt(edda)] undergo aquation of one in-plane glycinato donor in 72 h as detected by the appearance of a 13-line 1H NMR pattern which may be deconvoluted into four AB glycinato sets. These results are indicative of a pendant or ion-paired glycinato donor for [Pt(edda)(H2O)] which is placed either on the same side, or the opposite side, of the PtN2O2 plane and coordinated glycinato donor. 195Pt NMR shows that H2O is actually replaced by Cl-, i.e. [Pt(edda)Cl]-. The unsym. [PtII(uedda)X] (X = H2O, Cl-, OH-) complex exhibits no major change over long time intervals (≥10 days, pD .apprx.6). The presence of a minor species at 15% abundance may be a similarly structured species as for [Pt(edda)(H2O)] with a pendant glycinato functionality. complex in solution is shown by the 1H NMR with [NaCl] and [NaClO4]-dependence studies to be [Pt(uedda)(H2O)] at low [Cl-] and [Pt(uedda)Cl] - at 1.0M Cl-. 195Pt NMR confirms the formulation of X = H2O at low [Cl-]. 1H and 13C NMR evidence supports one axially associated and one in-plane coordinated glycinato donor each for the major [Pt(uedda)(H2O)] complex. The 13C NMR shows only one type of glycinato donor with a chemical

shift of 189.3 ppm for the major species, and two types for the 15% species (185.6 and 170.5 ppm). The major species of [Pt(uedda) (H2O)] has only one type of carboxylate stretch in the IR spectra (1661 cm-1; shoulder feature at 1639 cm-1) which compares favorably with the fully-coordinated pair of glycinato donors of [Pt(edda)] (1640 cm-1). Probably the structures of [Pt(uedda) (H2O)] and [Pt(uedda) Cl]- are pseudo-square pyramids which illustrates the capacity of Pt(II) to adopt five-coordinate, 18-electron complexes when a suitable chelate ligand offers a fifth associable donor. These species are similar to the five-coordinate intermediates of ligand substitution reactions of typical square-planar Pt(II) complexes.

- L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1982:503239 CAPLUS
- DN 97:103239
- TI Study of reactions of inner-sphere substitution by complexons in platinum compounds
- AU Yushkova, S. V.
- CS Fac. Chem., Moscow State Univ., Moscow, USSR
- SO Deposited Doc. (1981), VINITI 3167-81, 70-1 Avail.: VINITI
- DT Report
- LA Russian
- AB Pt(II) and Pt(IV) complexes react with N,N'-ethylenediaminediacetic acid (H2L) to give Pt(NH3)L, Pt(NH3)2(OH)2L.3H2O, KHPtCl4L, and KHPtCl2(OH)2L. KHPtCl4L and KHPtCl2(OH)2L react with HCl to give H2PtCl4L and H2PtCl2(OH)2L, resp. The aging of an aqueous solution of KHPtCl2(OH)2L for several h gave KPt(OH)Cl2L. In Pt(NH3)L and KPt(OH)Cl2L, the ligand is tridentate, whereas in the other complexes it is bidentate. The complexes were characterized by thermal anal. and their stability consts. were determined
- L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1982:45253 CAPLUS
- DN 96:45253
- TI Synthesis and study of some platinum ethylenediaminediacetates
- AU Zheligovskaya, N. N.; Ansari, S. V.
- CS Mosk. Gos. Univ., Moscow, USSR
- SO Koordinatsionnaya Khimiya (1981), 7(10), 1540-3 CODEN: KOKHDC; ISSN: 0132-344X
- DT Journal
- LA Russian
- AB Pt(NH3)2Z (H2Z = ethylenediaminediacetic acid) was prepared by reaction of Pt(NH3)2Cl2 with H2Z in aqueous solution Pt(NH3)2(OH)2Z.3H2O, KHPtCl4Z, KHPtCl2(OH)2Z, H2PtCl4Z, H2PtCl2(OH)2Z, and KPt(OH)Cl2Z were prepared similarly. In Pt(NH3)2Z and KPt(OH)Cl2Z, the ligand Z2- is tridentate whereas in the other complexes it is bidentate. Protonation consts. were determined for some Pt complexes.
- L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1977:429894 CAPLUS
- DN 87:29894
- TI Study of the acid properties of palladium(II) and platinum(II) ethylenediaminediacetates
- AU Grevtsev, A. M.; Zheligovskaya, N. N.; Popov, L. V.
- CS Mosk. Gos. Univ., Moscow, USSR
- SO Vestnik Moskovskogo Universiteta, Seriya 2: Khimiya (1977), 18(1), 116-18 CODEN: VMUKA5; ISSN: 0579-9384
- DT Journal
- LA Russian
- AB The acid dissociation consts. (pKa1, pKa2) of H2PdLC12 and H2PtLC12 (H2L = ethylenediamine-N,N'-diacetate) at 25° are 2.39, 3.22 and 2.54, 3.33, resp. Cs2PdLC12, H2PdLC12, and H2PtLC12 were isolated. The complexes lose Cl- by hydrolysis and pCl values for H2PdLC12 and H2PtLC12

are 2.28 and 2.39, resp.

- L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1967:426144 CAPLUS
- DN 67:26144
- TI Anchimeric assistance in the reactions of dichloro(ethylenediamine-N,N'-diacetic acid) platinum(II) and its conjugate base
- AU Tanner, Stephen P.; Basolo, Fred; Pearson, Ralph G.
- CS Northwestern Univ., Evanston, IL, USA
- SO Inorganic Chemistry (1967), 6(6), 1089-91 CODEN: INOCAJ; ISSN: 0020-1669
- DT Journal
- LA English
- The rate of elimination of Cl- from dichloro(ethylenediamine-N,N'-diacetic acid)platinum(II) [Pt(H2EDDA)Cl2] is considerably increased when the free acid groups are neutralized. In acid solution the stable product is chloro(ethylenediamine-N,N'-acetic acid acetato)platinum(II) [Pt(HEDDA)Cl], whereas in solns. of higher pH the diacetato complex [Pt(EDDA)] is formed. The kinetics of the Cl- elimination reactions have been investigated and the pH dependence of the reaction rate has been explained in terms of the reactions of the acid and base forms of the complex. The reactions of dichloro(N,N'-dimethylethylenediamine)platinum(II) [Pt(Me2en)Cl2] in acetate ion solution have been studied and the results compared with the results of the chloride substitution in the above complexes to show the importance of the neighboring group effect.
- L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1964:80611 CAPLUS
- DN 60:80611
- OREF 60:14106c-d
- TI Complexes of ethylenediamine-N,N'-diacetic acid and platinum. cis-Oxidation
- AU Liu, Chui Fan
- CS Univ. of Michigan, Ann Arbor
- SO Inorg. Chem. (1964), 3(5), 680-4
- DT Journal
- LA Unavailable
- The ligand formed bidentate and tetradentate complexes with Pt(II). With Pt(IV), tridentate and tetradentate complexes were obtained. Oxidns. of the Pt(II) complexes to form the dichloro-(ethylenediamine-N,N'-diacetato)platinum(IV) were carried out. The regular type of addition reaction could be performed to yield the trans-dichloro isomer. The cis-dichloro isomer could also be obtained either by a ring closure reaction or by direct oxidation with the hexachloroplatinate(IV) ion.

(FILE 'HOME' ENTERED AT 15:40:26 ON 11 OCT 2004)

FILE 'REGISTRY' ENTERED AT 15:40:37 ON 11 OCT 2004 STRUCTURE UPLOADED

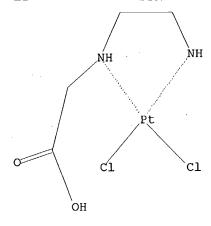
=> d 11

L1 HAS NO ANSWERS

L1

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:41:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED

2 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

124

PROJECTED ITERATIONS: 2 TO

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 15:41:09 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 97 TO ITERATE

100.0% PROCESSED 97 ITERATIONS 22 ANSWERS

SEARCH TIME: 00.00.01

L3 22 SEA SSS FUL L1

=> fil reg

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 155.42 155.63

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STRUCTURE FILE UPDATES: 10 OCT 2004 HIGHEST RN 760149-23-3 DICTIONARY FILE UPDATES: 10 OCT 2004 HIGHEST RN 760149-23-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> s 13

SAMPLE SEARCH INITIATED 15:41:19 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -2 TO ITERATE

100.0% PROCESSED

2 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:

ONLINE **COMPLETE**

BATCH

2 TO 124

PROJECTED ITERATIONS:

COMPLETE

PROJECTED ANSWERS:

1 TO 80

L4

1 SEA SSS SAM L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY SESSION

0.42 156.05

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FILE COVERS 1907 - 11 Oct 2004 VOL 141 ISS 16 FILE LAST UPDATED: 10 Oct 2004 (20041010/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L5

19 L3

=> d 1-19 bib abs

- L_5 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN -2004:162472 CAPLUS
- DN 140:193045
- TIDynamic platinum compounds for the treatment of cancer
- IN Shaw, Jiajiu
- PA
- SO U.S. Pat. Appl. Publ., 7 pp. CODEN: USXXCO
- DTPatent
- LΑ English
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					
PI PRAI	US 2004039051 US 2002-405325P	A1 P	20040226 20020822	US 2003-643339	20030819

- OS MARPAT 140:193045
- This invention discloses a series of dynamic platinum compds. and method AB of treating cancer by administering said compound to a cancer patient.
- L5 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN2003:665391 CAPLUS
- DN 139:210687
- ΤI Analysis of the growth system of Candida albicans in a host and the development of new antifungal material
- ΑU Watanabe, Toshihiko
- Department of Microbiology, Tohoku Pharmaceutical University, Aoba-ku, CS Sendai, 981-8558, Japan
- SO Yakugaku Zasshi (2003), 123(7), 561-567 CODEN: YKKZAJ; ISSN: 0031-6903
- PΒ Pharmaceutical Society of Japan
- DTJournal
- LΑ Japanese
- Hyphal cells of Candida albicans bind to human Hb, but not yeast cells. AB The amount of Hb receptor is significantly higher in hyphal cells than on yeast cells. Only the hyphal cells of C. albicans use Hb as a source of iron. The culture supernatant of C. albicans promoted the disruption of human red blood cells (RBC). Hemolytic activity was detected in a sugar-rich fraction (about 200 kDa) purified by Sephacryl S-100 chromatog. As the hemolytic activity was adsorbed by Con A (Con A)-Sepharose, the hemolytic factor might be a mannoprotein. The activity was inactivated by periodate oxidation, indicating that the sugar moiety of the mannoprotein plays an important role in hemolysis. The structure of the sugar moiety of the mannoprotein was identified as a cell wall mannan by 1H-NMR anal., and purified C. albicans mannan promoted the disruption of RBC. The binding of mannan to RBC was demonstrated by flow cytometric anal. and was inhibited by the addition of the band 3 protein inhibitor, 4,4'-diisothiocyanato-stilbene-2,2'-disulfonic acid (DIDS). The hemolysis caused by mannan is inhibited by DIDS, 4-acetamido-4'-isothiocyanatostilbene-2,2'-disulfonic acid, and bis(sulfosuccinimidyl) suberate, but not by pyridoxal-5'-phosphate. A new platinum derivative of the form H[Pt(IV)(Hdigly)Cl2(OH)2] (Hdigly = glycylglycine) has candidacidal activity 10-fold lower than that of cisplatin.
- L5ANSWER 3 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- 2002:29664 CAPLUS ΑN
- DN 136:256268
- TI Oxidation of [PtIICl2(ethane-1,2-diamine-N,N'-dicarboxylic acid)] and ligand ring closure in the platinum(IV) oxidation state
- AU Wong, Pong Nai; Davies, Murray S.; Hambley, Trevor W.

- CS Centre for Heavy Metals Research, School of Chemistry, University of Sydney, Sydney, 2006, Australia
- SO Australian Journal of Chemistry (2001), 54(5), 303-306 CODEN: AJCHAS; ISSN: 0004-9425
- PB CSIRO Publishing
- DT Journal
- LA English
- OS CASREACT 136:256268
- AB Oxidation of the dichloroplatinum(II) complex of the potentially tetradentate ligand ethane-1,2-diamine-N,N'-diacetic acid (H2enda) gives rise to a variety of products. A number of these species were crystallog. characterized. [PtIVCl2(enda)] as the hemihydrate crystallizes in the monoclinic space group P21/a, with a 11.238(1), b 15.665(2), c 13.737(2), β 109.44(1)°, and was refined to an R value of 0.030 on 3015F. [PtIVCl2(enda)] as the monohydrate crystallizes in the orthorhombic space group Pna21, with a 6.984(2), b 9.000(3), c 18.431(3), and was refined to an R value of 0.025 on 992F. [PtIVCl3(Henda)]H2O crystallizes in the orthorhombic space group Pbca, with a 11.741(1), b 12.851(2), c 17.133(2) Å, and was refined to an R value of 0.029 on 2015F. The major product is the ring-closed complex [PtIVCl2(enda)] and if the solution is heated under reflux for 24 h, this is the only product. In contrast, reaction of cis,trans-[PtIVCl2(OH)2(ethane-1,2-diamine)] with excess HOAc was shown not to lead to displacement of the hydroxo ligands.
- RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2001:94956 CAPLUS
- DN 134:347561
- TI Synthesis and antitumour activity of platinum(II) and platinum(IV) complexes containing ethylenediamine-derived ligands having alcohol, carboxylic acid and acetate substituents. Crystal and molecular structure of [PtL4Cl2]·H2O where L4 is ethylenediamine-N,N'-diacetate
- AU Jolley, J. N.; Yanovsky, A. I.; Kelland, L. R.; Nolan, K. B.
- CS Department of Chemistry, Royal College of Surgeons in Ireland, Dublin, Ire.
- Journal of Inorganic Biochemistry (2001), 83(2-3), 91-100 IS JANUARY 2001 CODEN: JIBIDJ; ISSN: 0162-0134
- PB Elsevier Science Inc.
- DT Journal
- LA English
- AR Several cisplatin analogs of ethylenediamine-derived ligands containing alc., carboxylic acid and acetate substituents were prepared and characterized. Oxidation of some of these square planar platinum(II) complexes using aqueous hydrogen peroxide gave octahedral platinum(IV) complexes, containing trans hydroxo ligands. Acetylation of the hydroxo ligands was achieved by reaction with acetic anhydride, giving complexes which are analogs of the antitumor drug, JM-216. Oxidation of [Pt(H2L4)Cl2], where H2L4 is ethylenediamine-N,N'-diacetic acid, with H2O2 gave the platinum(IV) complex [PtL4Cl2] H2O in which L4 is tetradentate as shown by a crystal and mol. structure. This complex was previously reported to be [Pt(HL4)(OH)Cl2] in which HL4 is tridentate. Several of the complexes were tested for antitumor activity against five human ovarian carcinoma cell lines. IC50 values range from 4.0 μM for cis,trans-PtCl2(OH)2(NH2CH2CH2NHCH2CH2OH) against the CH1 cell line to >25 μM indicating moderate to low activity relative to other platinum complexes.
- RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2000:688969 CAPLUS
- DN 134:209

- TI Anti-Candida activity of a new platinum derivative
- AU Watanabe, T.; Takano, M.; Ogasawara, A.; Mikami, T.; Kobayashi, T.; Watabe, M.; Matsumoto, T.
- CS Department of Microbiology, Tohoku Pharmaceutical University, Sendai, 981-8558, Japan
- SO Antimicrobial Agents and Chemotherapy (2000), 44(10), 2853-2854 CODEN: AMACCQ; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- AB A new platinum derivative of the form H[Pt(IV)(Hdigly)Cl2(OH)2] (Hdigly=glycylglycine) damaged the Candida albicans cell membrane and inhibited the growth of the cells. The cytotoxic activity of H[Pt(IV)(Hdigly)Cl2(OH)2] on mammalian cells was 10-fold lower than that of cis-diammine-dichloroplatinum (cisplatin). Substitution of platinum for peptides is effective for enhancement of antifungal activity and reduction of the toxicity to mammalian cells.
- RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1999:227620 CAPLUS
- DN 130:360522
- TI Preparation, 195Pt NMR spectra and biological activity of platinum(IV) complexes with dipeptides
- AU Watabe, Masatoshi; Kobayashi, Takao; Kawahashi, Takako; Hino, Ayako; Watanabe, Toshihiko; Mikami, Takeshi; Matsumoto, Tatsuji; Suzuki, Masuko
- CS General Education Department, Kogakuin University, Tokyo, 192-0015, Japan
- SO Journal of Inorganic Biochemistry (1999), 73(1,2), 1-5 CODEN: JIBIDJ; ISSN: 0162-0134
- PB Elsevier Science Inc.
- DT Journal
- LA English
- Three dipeptide complexes K[Pt(IV)(dipep)Cl(OH)2] and four dipeptide complexes K[Pt(IV)(Hdipep)Cl2(OH)2] were newly prepared The 195Pt NMR peaks of the K[Pt(IV)(dipep)Cl(OH)2] complexes appeared at .apprx.1200 ppm and these chemical shifts were .apprx.3150 ppm downfield compared with those of the K[Pt(II)(dipep)Cl] complexes. The chemical shifts of the K[Pt(IV)(Hdipep)Cl2(OH)2] complexes were at .apprx.900 ppm, i.e., .apprx.3050 ppm downfield compared with those of the K[Pt(II)(Hdipep)Cl] complexes. The H[Pt(IV)(Hdigly)Cl2(OH)2] and K[Pt(IV)(Hdigly)Cl2(OH)2] complexes inhibited the growth of C. albicans at a more diluted concentration than

cisplatin at 1 μ g/mL, but the Pt complexes only weakly inhibited the growth of these cells compared with the cisplatin-inhibited growth of Meth-A and Hep-2 cells at 10 μ g/mL. Probably the Pt complexes selectively inhibited the growth of fungal cells.

- RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1997:691132 CAPLUS
- DN 128:28812
- TI Crystal structure of dichloro(ethylenediaminediacetic acid- N,N')platinum(II)
- AU Mullaney, Matthew; Chang, Shih-Chi; Norman, Richard E.
- CS Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA, 15282, USA
- SO Inorganica Chimica Acta (1997), 265(1-2), 275-278 CODEN: ICHAA3; ISSN: 0020-1693
- PB Elsevier
- DT Journal

- LA English
- AB Crystals of (PtC6H12N2O4Cl2, mol. weight = 442.17) are pale yellow plates. The compound is orthorhombic, space group Pccm, with a 7.9289(7), b 3.723(3), c 19.604(5) Å and Z = 2. The structure was refined to R = 0.071 and Rw = 0.070 for 627 reflections with I> 3.00σ (I). Atomic coordinates are given. The Pt atom sits on the intersection of a mirror plane and 2-fold axis. The ligand atoms are disordered and are present with 1/2 occupancy. The Pt center is roughly square planar as expected, coordinated by a total of two N and two Cl atoms.
- RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1996:186675 CAPLUS
- DN 124:330624
- TI A comparison of the solution behavior of Pt(II) complexes of N,N'- and N,N-ethylenediaminediacetate (edda and uedda)
- AU Shepherd, Rex E.; Zhang, Songsheng; Kortes, Richard; Lin, Fu-Tyan; Maricondi, Chris
- CS Department of Chemistry, University of Pittsburgh, Pittsburgh, PA, 15260, USA
- SO Inorganica Chimica Acta (1996), 244(1), 15-23 CODEN: ICHAA3; ISSN: 0020-1693
- PB Elsevier
- DT Journal
- LA English
- Pt(II) complexes of N,N'-ethylenediaminediacetate (edda) and AΒ N, N-ethylenediaminediacetate (uedda) were prepared from K2PtCl4 by stepwise addition of the N backbone donors at pH .apprx.2.9 (50-60°, 60 h) and further coordination of the deprotonated carboxylate donors at pH \geq 4 (65-75°, 24 h). Coordination of the glycinato donors was shown by 1H and 13C NMR and IR methods. The sym. edda ligands form 38.3% (R,R)/(S,S)-[Pt(edda)] isomers and 61.7% meso (R,S)/(S,R)-[Pt(edda)]isomers. All four forms of [Pt(edda)] undergo aquation of one in-plane glycinato donor in 72 h as detected by the appearance of a 13-line 1H NMR pattern which may be deconvoluted into four AB glycinato sets. These results are indicative of a pendant or ion-paired glycinato donor for [Pt(edda)(H2O)] which is placed either on the same side, or the opposite side, of the PtN2O2 plane and coordinated glycinato donor. 195Pt NMR shows that H2O is actually replaced by Cl-, i.e. [Pt(edda)Cl]-. The unsym. [PtII(uedda)X] (X = H2O, Cl-, OH-) complex exhibits no major change over long time intervals (≥10 days, pD .apprx.6). The presence of a minor species at 15% abundance may be a similarly structured species as for [Pt(edda)(H2O)] with a pendant glycinato functionality. The major complex in solution is shown by the 1H NMR with [NaCl] and [NaClO4]-dependence studies to be [Pt(uedda)(H2O)] at low [Cl-] and [Pt(uedda)Cl]- at 1.0M Cl-. 195Pt NMR confirms the formulation of X = H2Oat low [Cl-]. 1H and 13C NMR evidence supports one axially associated and one in-plane coordinated glycinato donor each for the major [Pt(uedda)(H2O)] complex. The 13C NMR shows only one type of glycinato donor with a chemical shift of 189.3 ppm for the major species, and two types for the 15%species (185.6 and 170.5 ppm). The major species of [Pt(uedda)(H2O)] has only one type of carboxylate stretch in the IR spectra (1661 cm-1; shoulder feature at 1639 cm-1) which compares favorably with the fully-coordinated pair of glycinato donors of [Pt(edda)] (1640 cm-1). Probably the structures of [Pt(uedda)(H2O)] and [Pt(uedda)Cl]- are pseudo-square pyramids which illustrates the capacity of Pt(II) to adopt five-coordinate, 18-electron complexes when a suitable chelate ligand offers a fifth associable donor. These species are similar to the five-coordinate intermediates of ligand substitution reactions of typical square-planar Pt(II) complexes.

- L5 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1994:181666 CAPLUS
- DN 120:181666
- TI Thermal stability of platinum ethylenediaminediacetates
- AU Al Ansari, S. V.
- CS Marii. Gos. Univ., Russia
- SO Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (1993), 36(9), 54-8
 CODEN: IVUKAR; ISSN: 0579-2991
- DT Journal
- LA Russian
- AB The thermal stability of [PtL(NH3)] (H2L = N,N'-ethylenediaminediacetic acid), [PtL(NH3)2(OH)2].3H2O, K[Pt(HL)Cl2(OH)2] and K[Pt(HL)Cl4] was studied by DTA, TGA, IR spectra and paper chromatog. The strength of Pt-N and Pt-O bonds in these complexes was determined These complexes begin to decompose at 200-220° with decarboxylation and subsequently deamination.
- L5 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1984:113942 CAPLUS
- DN 100:113942
- TI Synthesis and study of acid properties of platinum(II) and palladium(II) dichloride ethylenediamine-N,N'-diacetates and dichloride aminoethylimino-N,N-diacetates
- AU Zheligovskaya, N. N.; Shchelokova, L. R.; Popov, L. V.; Spitsyn, V. I.
- CS Mosk. Gos. Univ., Moscow, USSR
- SO Koordinatsionnaya Khimiya (1984), 10(1), 107-10 CODEN: KOKHDC; ISSN: 0132-344X
- DT Journal
- LA Russian
- AB H2MLC12 (M = Pd, Pt; H2L = ethylenediamine-N,N'-diacetic acid) and H2ML1C12.2H2O (H2L1 = aminoethylimino-N,N-diacetic acid) were prepared The acid dissociation consts. for H2MLC12 and H2ML1C12.2H2O were determined Both complexes are totally protonated at pH < 1 and totally deprotonated at pH > 6; at pH 1-6 both protonated and deprotonated species exist. Both ligands are bidentate and N-coordinated, forming 4-coordinate complexes.
- L5 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1983:522210 CAPLUS
- DN 99:122210
- TI Hydrogen-deuterium exchange of heterocyclic compounds on catalysts of different nature
- AU Dedov, A. G.; Filippova, T. Yu.; Neimerovets, E. B.; Popov, L. V.; Stepanova, I. P.; Karakhanov, E. A.
- CS Mosk. Gos. Univ., Moscow, 117234, USSR
- SO Khimiya Geterotsiklicheskikh Soedinenii (1983), (7), 912-16 CODEN: KGSSAQ; ISSN: 0453-8234
- DT Journal
- LA Russian
- AB The deuteration of benzofuran by D2O occurred with Pt complex catalysts and with Pt black obtained from these complexes. The most active complex was K tetrachloroplatinite, and Pt black obtained from this complex was more active than Pt black obtained from the other complexes examined Deuteration by C6D6 or C2D5OD was less efficient or did not occur.

 1,4-Benzodioxane was deuterated less readily than benzofuran. Active C, NdNaX zeolite, Al2O3, and aluminosilicate failed to catalyze the reaction. K2PtC14 catalyzed the deuteration of 3-methylbenzothiophene without being poisoned.
- L5 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1982:503239 CAPLUS
- DN 97:103239

- TI Study of reactions of inner-sphere substitution by complexons in platinum compounds
- AU Yushkova, S. V.
- CS Fac. Chem., Moscow State Univ., Moscow, USSR
- SO Deposited Doc. (1981), VINITI 3167-81, 70-1 Avail.: VINITI
- DT Report
- LA Russian
- AB Pt(II) and Pt(IV) complexes react with N,N'-ethylenediaminediacetic acid (H2L) to give Pt(NH3)L, Pt(NH3)2(OH)2L.3H2O, KHPtCl4L, and KHPtCl2(OH)2L. KHPtCl4L and KHPtCl2(OH)2L react with HCl to give H2PtCl4L and H2PtCl2(OH)2L, resp. The aging of an aqueous solution of KHPtCl2(OH)2L for several h gave KPt(OH)Cl2L. In Pt(NH3)L and KPt(OH)Cl2L, the ligand is tridentate, whereas in the other complexes it is bidentate. The complexes were characterized by thermal anal. and their stability consts. were determined
- L5 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1982:45253 CAPLUS
- DN 96:45253
- TI Synthesis and study of some platinum ethylenediaminediacetates
- AU Zheligovskaya, N. N.; Ansari, S. V.
- CS Mosk. Gos. Univ., Moscow, USSR
- SO Koordinatsionnaya Khimiya (1981), 7(10), 1540-3 CODEN: KOKHDC; ISSN: 0132-344X
- DT Journal
- LA Russian
- AB Pt(NH3)2Z (H2Z = ethylenediaminediacetic acid) was prepared by reaction of Pt(NH3)2Cl2 with H2Z in aqueous solution Pt(NH3)2(OH)2Z.3H2O, KHPtCl4Z, KHPtCl2(OH)2Z, H2PtCl4Z, H2PtCl2(OH)2Z, and KPt(OH)Cl2Z were prepared similarly. In Pt(NH3)2Z and KPt(OH)Cl2Z, the ligand Z2- is tridentate whereas in the other complexes it is bidentate. Protonation consts. were determined for some Pt complexes.
- L5 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1981:507700 CAPLUS
- DN 95:107700
- TI Synthesis and study of the properties of halogen-containing platinum(II) ethylenediamine-N,N'-diacetates
- AU Zheligovskaya, N. N.; Grevtsev, A. M.; Shchelokova, L. R.; Tsivadze, A. Yu.; Spitsyn, V. I.
- CS Mosk. Gos. Univ., Moscow, USSR
- SO Zhurnal Neorganicheskoi Khimii (1981), 26(7), 1973-4 CODEN: ZNOKAQ; ISSN: 0044-457X
- DT Journal
- LA Russian
- AB K2PtX4 (X = Cl, Br) react with ethylenediaminediacetic acid (H2EDDA) in solution at pH <5 to give H2Pt(EDDA)X2. The acid dissociation consts. pK2 are 3.1 and 3.4 for the chloro and bromo complexes, resp. On the basis of IR data, a structure is proposed for H2Pt(EDDA)X2.
- L5 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1978:586597 CAPLUS
- DN 89:186597
- Neighboring carboxylate group effects in reactions of metal complexes; chloride ion displacement from [2-(2-aminoethylamino)acetic acid-NN']dichloroplatinum(II) and its conjugate base in aqueous solution
- AU Nolan, Kevin B.; Soudi, Ali Akbar
- CS Dep. Chem., Univ. Surrey, Guildford, UK
- SO Journal of Chemical Research, Synopses (1978), (4), 118 CODEN: JRPSDC; ISSN: 0308-2342
- DT Journal
- LA English
- AB The kinetics of Cl- displacement from the title complex, prepared from

 ${\tt H2N\,(CH2)\,2NHCH2CO2H.2HCl}$ and K2[PtCl4], and its conjugate base in aqueous solution

were studied between pH 1-7 at 298.2-349.2 K. The neighboring carboxylate group effects were studied, as Cl- displacement occurred by ring closure. The conjugate base was more reactive because of an entropic advantage, overriding the enthalpic advantage of the acid. The thermodn. ionization constant of the title complex was also determined

- L5 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1978:16014 CAPLUS
- DN 88:16014
- TI Preparation and antitumor evaluation of water-soluble derivatives of dichloro(1,2-diaminocyclohexane)platinum(II)
- AU Schwartz, Paul; Meischen, Sandra J.; Gale, Glen R.; Atkins, Loretta M.; Smith, Alayne B.; Walker, Ernest M., Jr.
- CS VA Hosp., Charleston, SC, USA
- SO Cancer Treatment Reports (1977), 61(8), 1519-25 CODEN: CTRRDO; ISSN: 0361-5960
- DT Journal
- LA English
- AB The structure of the antitumor agent NSC-194814 [dichloro(1,2-diaminocyclohexane)platinum(II)] [52691-24-4] was modified by replacing the chlorides with organic or inorg. anions. Eighteen new Pt complexes were so isolated and their antitumor properties against the L1210 leukemia in C57BL/6 + DBA/2 mice were evaluated. Most of the complexes were readily soluble in water and some had enhanced antitumor activity compared to the parent dichloro complex. In addition, increased solubility with retention of

significant antitumor activity was obtained by oxidizing the parent dichloroplatinum(II) complex with halogen or peroxide to give 2 Pt(IV) complexes. Some previously reported Pt complexes with P, Se, or Te electron-donor ligands were also synthesized and assessed for antitumor action, but these did not show appreciable activity.

- L5 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1970:26728 CAPLUS
- DN 72:26728
- TI Absorption spectra and circular dichroisms of metal complexes. IV. Dichloro-diamine type complexes of platinum(II) and Palladium(II)
- AU Ito, Haruko; Fujita, Junnosuke; Saito, Kazuo
- CS Tohoku Univ., Sendai, Japan
- SO Bulletin of the Chemical Society of Japan (1969), 42(10), 2863-9 CODEN: BCSJA8; ISSN: 0009-2673
- DT Journal
- LA English
- AB Absorption spectra of dichloro(l tetrahydrogenpropylenediaminetetraaceta to)platinum-(II) and -palladium(II) and dichloro(d-hydrogendiaminopropionato)platinum(II) and -palladium(II) were interpreted on the basis of a comparison of their CD spectra with those of dichloro-(l-propylenediamine)platinum(II) and -palladium(II). The d-d bands of H4EDTA and D-(-)D-propylenediaminetetraacetic acid complexes shifted to longer wavelength as compared with those of D-(-)D-propylenediamine complexes. The shift was discussed, based on the effects of the weaker ligand field strength and apical interaction of the acetato groups of these ligands.
- L5 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1967:426144 CAPLUS
- DN 67:26144
- TI Anchimeric assistance in the reactions of dichloro(ethylenediamine-N,N'-diacetic acid) platinum(II) and its conjugate base
- AU Tanner, Stephen P.; Basolo, Fred; Pearson, Ralph G.
- CS Northwestern Univ., Evanston, IL, USA

- SO Inorganic Chemistry (1967), 6(6), 1089-91 CODEN: INOCAJ; ISSN: 0020-1669
- DT Journal
- LA English
- AB The rate of elimination of Cl- from dichloro(ethylenediamine-N,N'-diacetic acid)platinum(II) [Pt(H2EDDA)Cl2] is considerably increased when the free acid groups are neutralized. In acid solution the stable product is chloro(ethylenediamine-N,N'-acetic acid acetato)platinum(II) [Pt(HEDDA)Cl], whereas in solns. of higher pH the diacetato complex [Pt(EDDA)] is formed. The kinetics of the Cl- elimination reactions have been investigated and the pH dependence of the reaction rate has been explained in terms of the reactions of the acid and base forms of the complex. The reactions of dichloro(N,N'-dimethylethylenediamine)platinum(II) [Pt(Me2en)Cl2] in acetate ion solution have been studied and the results compared with the results of the chloride substitution in the above complexes to show the importance of the neighboring group effect.
- L5 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1964:80611 CAPLUS
- DN 60:80611
- OREF 60:14106c-d
- TI Complexes of ethylenediamine-N,N'-diacetic acid and platinum. cis-Oxidation
- AU Liu, Chui Fan
- CS Univ. of Michigan, Ann Arbor
- SO Inorg. Chem. (1964), 3(5), 680-4
- DT Journal
- LA Unavailable
- The ligand formed bidentate and tetradentate complexes with Pt(II). With Pt(IV), tridentate and tetradentate complexes were obtained. Oxidns. of the Pt(II) complexes to form the dichloro-(ethylenediamine-N,N'-diacetato)platinum(IV) were carried out. The regular type of addition reaction could be performed to yield the trans-dichloro isomer. The cis-dichloro isomer could also be obtained either by a ring closure reaction or by direct oxidation with the hexachloroplatinate(IV) ion.